SGK1 (D27C11) Rabbit mAb



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Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 45-60	Source/Isotype: Rabbit IgG	UniProt ID: #O00141	Entrez-Gene Id 6446	
Product Usage Information	Ар	plication		Dilution			
	We	Western Blotting			1:1000		
	Imr	munoprecipitation			1:100		
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensitiv		SGK1 (D27C11) Rabbit mAb recognizes endogenous levels of total SGK1 protein. This antibody does not cross-react with SGK2 or SGK3.					
Source / Purification	-	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly420 of human SGK1 protein.					
Background	Serum and glucocorticoid-inducible kinase (SGK) is a serine/threonine kinase closely related to Akt (1). SGK is rapidly induced in response to a variety of stimuli, including serum, glucocorticoid, follicle stimulating hormone, osmotic shock, and mineralocorticoids. SGK activation can be accomplished via HGF PI3K-dependent pathways and by integrin-mediated PI3K-independent pathways (2,3). Induction and activation of SGK has been implicated in activating the modulation of anti-apoptotic and cell cycle regulation (4-6). SGK also plays an important role in activating certain potassium, sodium, and chloride channels, suggesting its involvement in the regulation of processes such as cell survival, neuronal excitability, and renal sodium excretion (2). SGK is negatively regulated by ubiquitination and proteasome degradation (7). In addition to its membrane channel and carrier functions, SGK1 also regulates a broad range of targets, such as GSK-3, NEDD4, iNOS, AMPAR, PSD95, Tau, NF-kB, CREB, and FKHR-L1 (8,9).						
Background Referer		 Webster, M.K. et al. (1993) Mol Cell Biol 13, 2031-40. Kobayashi, T. and Cohen, P. (1999) Biochem J 339 (Pt 2), 319-28. 					

- 3. Park, J. et al. (1999) EMBO J 18, 3024-33.
- 4. Brunet, A. et al. (2001) Mol Cell Biol 21, 952-65.
- 5. Mikosz, C.A. et al. (2001) J Biol Chem 276, 16649-54.
- 6. Hayashi, M. et al. (2001) J Biol Chem 276, 8631-4.
- 7. Brickley, D.R. et al. (2002) J Biol Chem 277, 43064-70.
- 8. Lang, F. et al. (2009) Expert Opin Ther Targets 13, 1303-11.
- 9. Lang, F. et al. (2010) J Physiol 588, 3349-54.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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Limited Uses

SGK1 (D27C11) Rabbit mAb (#12103) Datasheet Without Images Cell Signaling Technology

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